

AMENDMENTS TO SPECIFICATION

#0038

QW
8/20/08
Please amend paragraph #0037 as follows::

--The data structuring module 230 organizes 450 feature vectors into a nearest neighbor's data structure stored in the voice sample database 275. The data structure comprises, for example, an ANN library or any other data structure providing quick access to a certain number of closest points. For example, the data structure can be a kd-tree, which is a generalized version of a binary tree with higher dimensions. The kd-tree provides an expected performance of $O(l)$ space and $O(\log l)$ time to find k nearest neighbor in a data set of "l" speaker data points and fixed dimensionality "d". Since query time and input space display an exponential dependence on "d", providing the approximate nearest neighbors, a subset of the nearest neighbors, maintains practical computation time for the voice recognition module 155. The number of feature vectors organized for each speaker can be, for example, 500, 1,000, or 2,000 per voice sample, with richer feature vectors providing higher accuracy--.